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1449B/PTO U.S. Department of Commerce Rev. 10/95 Patent and Trademark Office				С	omplete if Known	(STOP)
				Application Number	10/553,291	9
LIST OF PRIOR ART CITED BY				Filing Date	October 14, 2005	JUN 0 9 2008
	APPLICANT			First Named Inventor	Mary J. EATON	2 2008 E
(u	se as many sheets	s as nece	essary)	Group Art Unit	1647	
				Examiner Name	GAMETT, Daniel C	PROGRAM
Sheet	1	of	4	Attorney Docket Number	US 1442/05 (VA)	MOENO

				U.S. PATENT DOCUME	NTS	
Examiner Initials'	Cite No.1	Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		5,656,267		Sagen et al.	08-12-1997	
		6,358,739 B1		Baetge et al.	05-19-2002	
		4,753,635		Sagen et al.	06-28-1988	
		4,980,174		Sagen et al.	12-25-1990	
		5,082,670		Gage et al.	01-21-1992	
		5,629,159		Anderson	05-13-1997	**************************************
		5,730,974		Sagen	03-24-1998	
		5,762,925		Sagen	06-09-1998	. , , , , , , , , , , , , , , , , , , ,
		5,935,606		Sagen	08-10-1999	
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3) ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.1 ⁶ if possibile. ⁶ Applicant is to place a check mark here if English language Translation is attached.



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LIST OF PRIOR ART CITED BY APPLICANT

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Sheet 2 of 4 Attorney Docket Number US 1442/05 (VA)

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials'	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the Item (book), magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), Publisher, country, where published, source.	T ²
		International Search Report and Written Opinion dated February 19, 2008, in International Application No. PCT/US05/38233 (6 pp.).	
		Abou-Donia, M.M., Wilson, S.P., Zimmerman, T.P., Nichol, C.A., Viveros, O.H. Regulation of guanosine triphosphate cyclohydrolase and tetrahydrobiopterin levels and the role of the cofactor in tyrosine hydroxylation in primary cultures of adrenomedullary chromaffin cells. J Neurochem, 46, 1190-1199 (1986).	
		Aunis, D., Hesketh, J., Devilliers, G. Immunohistochemical and immunocytochemical localization of myosin, chromogranin A and dopamine-ß-hydroxylase in nerve cells in culture and adrenal glands. J Neurocytol, 9, 255-274 (1980).	
		Bachoud-Levi, A.C., Remy, P., Nguyen, J.P., Brugieres, P., Lefaucheur, J.P., Bourdet, C., Baudic, S., Gaura, V., Maison, P., Peschanski, M. Motor and cognitive improvements in patients with Huntington's disease after neural transplantation. Lancet, 356, 1975-1979 (2000).	
		Cahill, A.L., Eertmoed, L., Mangoura, D., Perlman, R. Differential regulation of phenylethanolamine-N-methyltransferase expression in two distinct subpopulations of bovine chromaffin cells. J. Neurochem., 67, 1217-1224 (1996).	
		Cairns L, Crotta S, Minuzzo M, Ricciardi-Castagnoli P, Pozzi L, Ottolenghi S: Immortalization of neuro-endocrine cells from adrenal tumors arising in SV40 T-transgenic mice. Oncogene 14:3093-3098 (1997).	
		Czech KA, Sagen J: Update on cellular transplantation into the CNS as a novel therapy for chronic pain. Prog.Neurobiol. 46:507-529 (1995).	
		Duplan H, Bes JC, Tafani M, Sallerin B, Sagen J, Ohayon E, Lazorthes Y, Tkaczuk J: Adrenal medullary explants as an efficient tool for pain control: adhesive biomolecular components are involved in graft function ex vivo. Exp Neurol, 163:331-347(2000).	
		Eaton, M.J., Blits, B., Ruitenberg, M.J., Verhaagen, J., Oudega, M. Amelioration of chronic neuropathic pain by adeno-associated viral (AAV) vector-mediated overexpression of BDNF in the rat spinal cord. Gene Ther, 9, 1387-1395 (2002a).	
		Eaton MJ: Emerging cell and molecular strategies for the study and treatment of painful peripheral neuropathies. J Peripher Nerv Sys 5:59-74 (2000).	

Examiner	Date	
Signature	Considered	

EXAMINER: Initial if reference considered, whether or not citation is in confomance with MPEP 609. Draw line through citation if not in confrmance and not considered. Include copy of this form with next communication to applicant.

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				Application Number	10/553,291 /	/ 5		
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	APPLIC	CANT		First Named Inventor	Mary J. EATON	3		
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				Examiner Name	GAMETT, Daniel	C PADEMAS		
Sheet	3	of	4	Attorney Docket Number	US 1442/05 (VA)			

	,	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials'	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the Item (book), magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), Publisher, country, where published, source.	T²
		Eaton, M.J., Gudehithlu, K.P., Quach, T., Silvia, C.P., Hadjiconstantinou, M., Neff, N.H. Distribution of aromatic L-amino acid decarboxylase mRNA in mouse brain by in situ hybridization histology. J. Comp. Neurol., 337, 640-654 (1993).	
		Eaton, M.J., Herman, J.P., Jullien, N., Lopez, T., Martinez, M., Huang, J. Immortalized chromaffin cells disimmortalized with Cre/lox site-directed recombination for use in cell therapy for pain. Exp Neurol, 175, 49-60 (2002b).	
		Giger, R.J., Wolfer, D.P., De Wit, G.M., Verhaagen, J. Anatomy of rat semaphorin III/collapsin-1 mRNA expression and relationship to developing nerve tracts during neuroembryogenesis. J Comp Nerol, 375, 378-392 (1996).	
		Lazorthes Y, Sagen J, Sallerin B, Tkaczuk J, Duplan H, Sol JC, Tafani M, Bes JC: Human chromaffin cell graft into the CSF for cancer pain management: a prospective phase II clinical study. Pain 87:19-32 (2000).	
		Muench, M.O., Ratcliffe, J.V., Nakanishi, M., Ishimoto, H., Jaffe, R.B. Isolation of definitive zone and chromaffin cells based upon expression of CD56 (neural cell adhesion molecule) in the human fetal adrenal gland. J Clin Endocrinol Metab, 88, 3921-3930 (2003).	
		Paillard F: Reversible cell immortalization with the cre-lox system. Hum.Gene Ther. 10:1597-1598 (1999).	
		Pal, R., Eaton, M.J., Islam, S., Hake-Frendscho, M., Kumar, K.N., Michaelis, E.K. Immunocytochemical and in situ hybridization studies of the expression and distributional of three subunits of a complex with N-methyl-D-aspartate receptor-like properties. Neurosci., 94, 1291-1311 (1999).	
		Pasterkamp, R.J., Giger, R.J., Ruitenberg, M.J., Holtmaat, A., De Wit, J., de Winter, F., Verhaagen, J. Expression of the gene encoding the chemorepellent semaphorin III is induced in the fibroblast component of neural scar tissue formed following injuries of adult but not neonatal CNS. Mol Cell Neurosci, 13, 143-166 (1999).	
		Pear, W.S. III Transduction of genes using retrovirus vectors. In: Ausabel, F.M., Brent, R., Kingston, R.E., Moore, D.D., Seigman, J.G., Smith, J.A. & Struhl, K. (eds),. Current protocols in molecular biology. John Wiley and Sons, New York (1995).	
		Pear, W.S., Nolan, G.P., Scott, M.L., Baltimore, D. Production of high-titer helper-free retroviruses by transient transfection. Proc. Nat. Acad. Sci., U. S. A., 90, 8392-8396 (1993).	

Examiner	Date	
Signature	Considered	

EXAMINER: Initial if reference considered, whether or not citation is in confomance with MPEP 609. Draw line through citation if not in confrmance and not considered. Include copy of this form with next communication to applicant.

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	APPLIC	CANT		First Named Inventor	Mary J. EATON	3
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				Examiner Name	GAMETT, Daniel	CIRADENS
Sheet	4	of	4	Attorney Docket Number	US 1442/05 (VA)	

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		Unsicker, K. & Muller, T.H. Purification of bovine adrenal chromaffin cells by differential plating. J. Neurosci. Meth., 4, 227-241 (1981).				
		Wang H, Sagen J: Attenuation of pain-related hyperventilation in adjuvant arthritic rats with adrenal medullary transplants in the spinal subarachnoid space. Pain 63:313-3201 (1995).	4			
		Duplan et al, Generation of conditionally immortalized cell lines genetically modified to over-express opioid peptides for chronic pain control, (Abstract) Exp Neurol, 175 (2): 433 (2002).				
MANAGARIA		Wang X-T, Eaton MJ. Sagen J. Generation of conditionally immortalized serotonergic pineal cells for transplantation in chronic pain. Soc Neurosci, Abstract 23: 1455 (1997).				
		Kim P, Seasholtz AF, Sagen J. Generation of opioid-producing PC12 cells for transplantation in chronic pain. Amer Soc Neural Transpl, Abstract 3:34 (1996).				
		Kim PH, Wang X-T, Seasholtz A, Sagen J, Unnerstall JR. A met-enkephalin producing PC12 cell line as an alternative donor source for neural transplants in the reduction of chronic pain. Soc Neurosci, Abstract 22: 1021 (1996).				
	Transfer continues gare Physic Agg 4	Eaton MJ, Frydel B, Lopez T, Nie XT, Huang J, McKillop J, Sagen J. Generation and initial characterization of conditionally immortalized chromaffin cells. J Cell Biochem., 79(1):38-57 (2000).				

Examiner	Date
Signature	Considered

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